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### *iPOLiS*

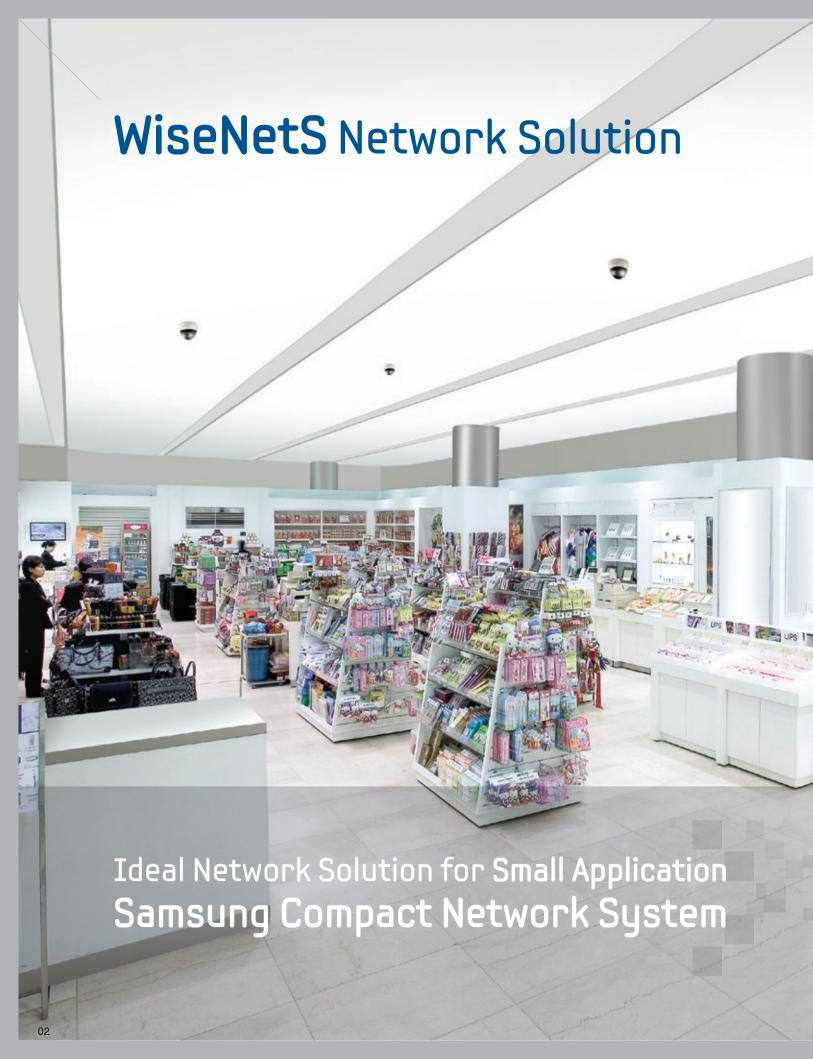
### Samsung Compact Network System

Ideal Network Solution for Small Application



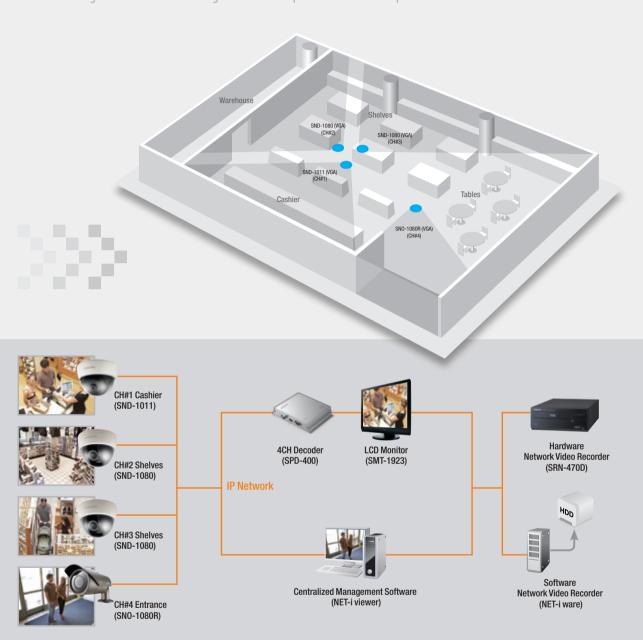






### Application Example for Convenience Store

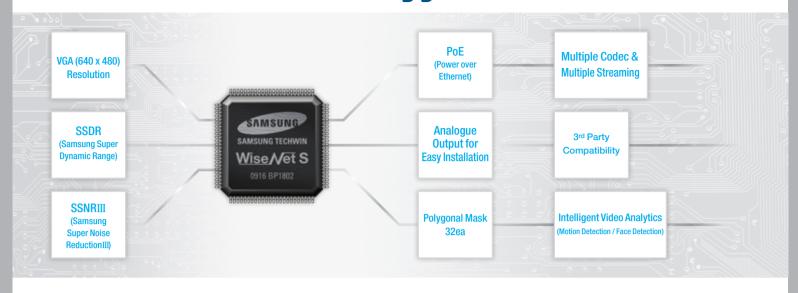
For the monitoring of inside of a store, mini dome cameras such as SND-1080 and SND-1011 can be installed. The enter/exit can be monitored with SNO-1080R IR camera which can capture images even in total darkness. WiseNetS range cameras offer a range of selection pool and users can pick the solution fits their needs.



Samsung Techwin adds VGA network cameras to its iPOLiS network solution range, which will be the ideal solution for small to medium size applications. The SNB-1001 fixed camera, the SND-1080 and SND-1011 internal mini dome cameras, SNO-1080R IR camera, and the SNV-1080 vandal resistant dome all utilizes WiseNetS DSP chipset, the latest DSP for network cameras from Samsung. The WiseNetS range cameras provide compact design making it suitable for any application, but high technologies from other WiseNet DSPs.

The WiseNetS series cameras can compose the whole network security solution for small application such as retail store, when combined with Samsung's NVR and CMS (Centralized Monitoring Software).

### WiseNetS DSP Technology



#### VGA Resolution Support

The WiseNetS cameras provides VGA (640 x 480) resolution. Although megapixel and HD cameras have many advantages, there are applications that VGA cameras are best-suited. It is important to consider the whole system and environment when choose the efficient network camera.



#### SSDR (Samsung Super Dynamic Range)

Useful in high contrast or backlight scene. Automatically lighten the dark areas within a scene whilst maintaining the brighter areas at the same level. This ensures that the

dark areas become more visible allowing the operator to view objects in the shadows.





#### SSNRIII (Samsung Super Noise Reduction III)

Useful in low light condition. This technology eliminates image noise in low light conditions without creating

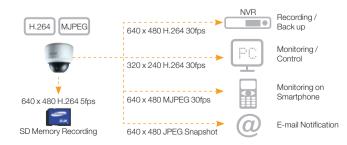
image blur or ghosting.





#### Multiple Codec & Multiple Streaming

The WiseNet network cameras support simultaneous streaming of multiple video compression technologies such as H.264 and MJPEG. This facilitates multiple purposes monitoring such as real-time, highquality or high-efficiency recording, mobile monitoring, E-mail notification and SD memory recording.



#### Polygonal Mask 32ea

The WiseNetS supports up to 32 polygonal shaped privacy masks so that it efficiently prevents invasion of privacy under various surveillance environments.

#### Analogue Output for Easy Installation

To provide analog video output port enabling conventional analog control device connection for easy installation such as focus and view angle adjustment. The installers do not need to carry Note-PC when he installs network cameras.



#### PoE (Power over Ethernet)

Power over Ethernet feature offers an easy, fast and cost-effective solution for supplying power to network cameras without the need to install power outlets and electrical cabling.



#### Intelligent Video Analytics (Motion Detection, Face Detection)

Intelligent video analytics can be used for efficient monitoring. WiseNetS cameras provide Motion Detection which detects a change occurred in predefined areass in

the field of view, and Face Detection to detect up to 35 faces in the scene.





#### 3rd Party Compatibility

Samsung is continuously expanding the partnership with important ISVs in worldwide to achieve the strong compatibility of network cameras. The WiseNetS range cameras and domes are planned to be compatible with Samsung's technical parters of leading third party software platforms.

### **SNB-1001**

VGA Network Camera















### **Key Features**

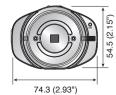
- 30fps at VGA (640 x 480) resolution
- H.264, MJPEG dual codec
- Multiple streaming
- Day & Night function (Software)
- SSDR, SSNRIII
- PoE, Micro SD slot, Bi-directional audio
- Motion detection, Face detection
- Alarm input 1ea, Analog output (DIP)

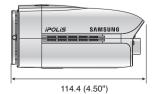
### Dimensions

Unit: mm (inch)









|                                  | SNB-1001N   | SNB-1001P   |
|----------------------------------|---|---|
| VIDEO                            |   |   |
| Imaging Device                   | 1/4" PS CMOS  |   |
| Total Pixels                     | 680(H) x 512(V)   |   |
| Effective Pixels                 | 640(H) x 480(V)   |   |
| Scanning System                  | Progressive   |   |
| Min. Illumination                | 0.7Lux (F1.2)   |   |
| S / N Ratio                      | , ,   |   |
| 071111440                        | 50dB  |   |
| Video Out                        | DIP connector type, for installation  |   |
| LENS                             | Marcal/DO calcilia  |   |
| Lens Type                        | Manual / DC auto iris   |   |
| Mount Type                       | C/CS  |   |
| OPERATIONAL                      |   |   |
| Camera Title                     | Off / On (Displayed up to 15 characters)  |   |
| Day & Night                      | Auto (S/W) / Color / B/W / External B/W   |   |
| Backlight Compensation           |   |   |
| Contrast Enhancement             | SSDR (Samsung Super Dynamic Range) (Of  | f / On)   |
| Digital Noise Reduction          | SSNRIII (2D+3D noise filter) (Off / On)   |   |
| Motion Detection                 | Off / On (4 programmable zones)   |   |
| Privacy Masking                  | Off / On (32ea 4 points polygonal)  |   |
| Sens-up (Frame Integration)      | Off / Auto (2x ~ 60x)   |   |
| Gain Control                     | Off / Low / Medium / High   |   |
| White Balance                    | ATW / AWC / Manual / Indoor / Outdoor   |   |
| Electronic Shutter Speed         |   |   |
| Flip / Mirror                    | Off / On  |   |
| Intelligent Video Analytics      |   |   |
| Alarm I/O                        | Input 1ea   |   |
| NETWORK                          | input rou   |   |
| Ethernet                         | RJ-45 (10/100BASE-T)  |   |
| Video Compression Format         |   |   |
| Resolution                       | 4:3 Mode - 640 x 480 / 320 x 240 / 160 x  | 120   |
| Max Framerate                    | Max. 30fps at all resolutions   | 120   |
| man ramorato                     | H.264 : Compression level, Target bitrate lev   | vel control   |
| Video Quality Adjustment         | MJPEG : Quality level control   |   |
| Bitrate Control Method           | H.264: CBR or VBR, MJPEG: VBR   |   |
| Streaming Capability             | Multiple streaming (Up to 10 profiles)  |   |
| Audio I/O                        | Mic/Line in , Line out  |   |
| Audio Compression Format         | G.711 u-law   |   |
| Audio Communication              | Bi-directional audio  |   |
| IP                               | IPv4, IPv6  |   |
| Protocol                         | TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, I<br>FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MII                     |   |
| Security                         | HTTPS(SSL) login authentication, Digest log   | in authentication   |
|                                  | IP address filtering, User access log, 802.1x   | Authentication  |
| Streaming Method                 | Unicast / Multicast   |   |
| Max. User Access                 | 5 users at unicast mode   |   |
| Memory Slot                      | Micro, SD/SDHC memory slot  |   |
| ONVIF Conformance                | Yes   |   |
| Webpage Language                 | Danish, Portuguese, Turkish, Polish, Czech, Ruma  | hinese, Korean, Russian, Japanese, Swedish<br>anian, Serbian, Dutch, Croatian, Hungarian, Greek |
| Web Viewer                       | Supported OS: Windows XP / VISTA / 7, MA<br>Supported Browser: Internet Explorer 7.0 or                     | C OS<br><sup>r</sup> Higher, Firefox, Google Chrome, Apple Safar                                |
| Central Management Software      | NET-i viewer  |   |
| ENVIRONMENTAL                    |   |   |
| Operating Temperature / Humidity | $-10^{\circ}\text{C} \sim +50^{\circ}\text{C} \ (+14^{\circ}\text{F} \sim +122^{\circ}\text{F}) \ / \ 20\%$ | ~ 80% RH  |
| ELECTRICAL                       |   |   |
| Input Voltage / Current          | 12V DC / PoE (IEEE802.3af)  |   |
| Power Consumption                | Max. 5W   |   |
| MECHANICAL                       | Disale Cilean / Alemaini Disali   |   |
| Color / Material                 | Black, Silver / Aluminium, Plastic  | 50lb I - I' ' I'  |
| Dimensions (WxHxD)               | 74.3 x 54.5 x 114.4mm (2.93" x 2.15" x 4.   | ou ) excluding projections  |
| Weight                           | 190g (0.42 lb)  |   |

### **SND-1080**

### VGA Network Varifocal Dome Camera

















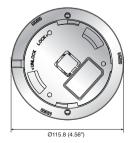
### **Key Features**

- 30fps at VGA (640 x 480) resolution
- 2.2 ~ 7.7mm (3.5x) varifocal lens
- H.264, MJPEG dual codec
- Multiple streaming
- Day & Night function (Software)
- SSDR, SSNRIII
- PoE, Micro SD slot, Bi-directional audio
- Motion detection, Face detection
- Alarm input 1ea, Analog output (DIP)

### Dimensions

Unit: mm (inch)





|  | SND-1080N  | SND-1080P                                  |
|--|--|--|
| VIDEO  |  |  |
| Imaging Device                               | 1/4" PS CMOS   |  |
| Total Pixels                                 | 680(H) x 512(V)  |  |
| Effective Pixels                             | 640(H) x 480(V)  |  |
| Scanning System                              | Progressive  |  |
| Min. Illumination                            | 0.7Lux (F1.2)  |  |
| S / N Ratio                                  | 50dB   |  |
| Video Out                                    | DIP connector type, for installation                     |  |
| LENS   | 0.0 7.7mm (0.5v) varifocal                               |  |
| Max. Aperture Ratio                          | 2.2 ~ 7.7mm (3.5x) varifocal<br>F1.2                     |  |
| Angular Field of View                        | H: 94°(Wide) ~ 26.5°(Tele), V: 70°(Wide) ~               | . 20°(Tala)                                |
| Min. Object Distance                         | 500mm (1.64ft)   | 20 (1010)                                  |
| Lens Type                                    | DC auto iris   |  |
| Mount Type                                   | Board type (Ø14)   |  |
| PAN / TILT / ROTATE                          |  |  |
| Pan Range                                    | 0° ~ 355°  |  |
| Tilt Range                                   | 17° ~ 90°  |  |
| Rotate Range                                 | 0° ~ 355°  |  |
| OPERATIONAL                                  |  |  |
| Camera Title                                 | Off / On (Displayed up to 15 characters)                 |  |
| Day & Night                                  | Auto (S/W) / Color / B/W / External B/W                  |  |
| Backlight Compensation                       |  |  |
| Contrast Enhancement                         | SSDR (Samsung Super Dynamic Range) (Of                   | f / On)                                    |
| Digital Noise Reduction                      | SSNRIII (2D+3D noise filter) (Off / On)                  |  |
| Motion Detection                             | Off / On (4 programmable zones)                          |  |
| Privacy Masking Sens-up (Frame Integration)  | Off / On (32ea 4 points polygonal) Off / Auto (2x ~ 60x) |  |
| Gain Control                                 | Off / Low / Medium / High                                |  |
| White Balance                                | ATW / AWC / Manual / Indoor / Outdoor                    |  |
| Electronic Shutter Speed                     | Auto / A.FLK / Manual (60x ~ 1/12000sec)                 |  |
| Flip / Mirror                                | Off / On   |  |
| Intelligent Video Analytics                  | Face detection   |  |
| Alarm I/O                                    | Input 1ea  |  |
| NETWORK                                      | •  |  |
| Ethernet                                     | RJ-45 (10/100BASE-T)                                     |  |
| Video Compression Format                     | H.264, MJPEG   |  |
| Resolution                                   | 4:3 Mode - 640 x 480 / 320 x 240 / 160 x                 | 120  |
| Max. Framerate                               | Max. 30fps at all resolutions                            |  |
| Video Quality Adjustment                     | H.264 : Compression level, Target bitrate lev            | vel control                                |
|  | MJPEG : Quality level control                            |  |
| Bitrate Control Method                       | H.264 : CBR or VBR, MJPEG : VBR                          |  |
| Streaming Capability                         | Multiple streaming (Up to 10 profiles)                   |  |
| Audio I/O                                    | Mic/Line in , Line out<br>G.711 u-law                    |  |
| Audio Compression Format Audio Communication | Bi-directional audio                                     |  |
| IP   | IPv4, IPv6   |  |
|  | TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, I              | NTP. HTTP. HTTPS SSI DHCP PPPnF            |
| Protocol                                     | FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MII                 |  |
|  | HTTPS(SSL) login authentication, Digest log              |  |
| Security                                     | IP address filtering, User access log, 802.1x            |  |
| Streaming Method                             | Unicast / Multicast                                      |  |
| Max. User Access                             | 5 users at unicast mode                                  |  |
| Memory Slot                                  | Micro, SD/SDHC memory slot                               |  |
| ONVIF Conformance                            | Yes  |  |
| Webpage Language                             | English, French, German, Spanish, Italian, C             |  |
| Woopage Language                             | Danish, Portuguese, Turkish, Polish, Czech, Ruma         |  |
| Web Viewer                                   | Supported OS: Windows XP / VISTA / 7, MA                 |  |
|  | Supported Browser : Internet Explorer 7.0 or             | Higher, Firefox, Google Chrome, Apple Safa |
| Central Management Software                  | NET-i viewer   |  |
| ENVIRONMENTAL                                | 1000   | 000/ DII                                   |
| Operating Temperature / Humidity             | -10°C ~ +50°C (+14°F ~ +122°F) / 20%                     | ~ 80% RH                                   |
| ELECTRICAL                                   | 101/00/0-5/55500000                                      |  |
| Input Voltage / Current                      | 12V DC / PoE (IEEE802.3af)                               |  |
| Power Consumption                            | Max. 5W  |  |
| MECHANICAL<br>Color / Material               | lyony / Plastic  |  |
|  | lvory / Plastic<br>Ø115.8 x 92.7mm (Ø4.56" x 3.65")      |  |
| Dimensions (WxH)                             |  |  |

### **SND-1011**

### VGA Network Fixed Dome Camera

















### Key Features

- 30fps at VGA (640 x 480) resolution
- Built-in 3mm fixed lens
- H.264, MJPEG dual codec
- Multiple streaming
- Day & Night function (Software)
- SSDR, SSNRIII
- Motion detection, Face detection
- Alarm input 1ea, Analog output (DIP)

### Dimensions

Unit: mm (inch)





|   | SND-1011N  | SND-1011P   |
|---|--|-------------|
| VIDEO                                       |  |             |
| Imaging Device                              | 1/4" PS CMOS   |             |
| Total Pixels                                | 680(H) x 512(V)  |             |
| Effective Pixels                            | 640(H) x 480(V)  |             |
| Scanning System                             | Progressive  |             |
| Min. Illumination                           | 0.7Lux (F1.2)  |             |
| S / N Ratio                                 | 50dB   |             |
| Video Out                                   | DIP connector type, for installation   |             |
| LENS  |  |             |
| Focal Length (Zoom Ratio)                   | 3mm fixed  |             |
| Max. Aperture Ratio                         | F2.0   |             |
| Angular Field of View                       | H:70°, V:50°   |             |
| Min. Object Distance                        | 40mm (0.13ft)  |             |
| Mount Type                                  | Board type   |             |
| PAN / TILT / ROTATE                         |  |             |
| Pan Range                                   | 0° ~ 355°  |             |
| Tilt Range                                  | 17° ~ 90°  |             |
| Rotate Range                                | 0° ~ 355°  |             |
| OPERATIONAL                                 |  |             |
| Camera Title                                | Off / On (Displayed up to 15 characters)   |             |
| Day & Night                                 | Auto (S/W) / Color / B/W / External B/W  |             |
| Backlight Compensation                      | Off / BLC  |             |
| Contrast Enhancement                        | SSDR (Samsung Super Dynamic Range) (Off  | f / On)     |
| Digital Noise Reduction                     | SSNRIII (2D+3D noise filter) (Off / On)  |             |
| Motion Detection                            | Off / On (4 programmable zones)  |             |
| Privacy Masking                             | Off / On (32ea 4 points polygonal)   |             |
| Sens-up (Frame Integration)                 | Off / Auto (2x ~ 60x)  |             |
| Gain Control                                | Off / Low / Medium / High  |             |
| White Balance                               | ATW / AWC / Manual / Indoor / Outdoor  |             |
| Electronic Shutter Speed                    | Auto / A.FLK / Manual (60x ~ 1/12000sec)   |             |
| Flip / Mirror                               | Off / On   |             |
| Intelligent Video Analytics                 | Face detection   |             |
| Alarm I/O                                   | Input 1ea  |             |
| NETWORK                                     |  |             |
| Ethernet                                    | RJ-45 (10/100BASE-T)   |             |
| Video Compression Format                    | H.264, MJPEG   |             |
| Resolution                                  | 4:3 Mode - 640 x 480 / 320 x 240 / 160 x   | 120         |
| Max. Framerate                              | Max. 30fps at all resolutions  |             |
| Vidoo Quality Adjustment                    | H.264: Compression level, Target bitrate lev   | rel control |
| Video Quality Adjustment                    | MJPEG: Quality level control   |             |
| Bitrate Control Method                      | H.264: CBR or VBR, MJPEG: VBR  |             |
| Streaming Capability                        | Multiple streaming (Up to 10 profiles)   |             |
| IP  | IPv4, IPv6   |             |
| Protocol                                    | TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NFTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MI               |             |
| Security                                    | HTTPS(SSL) login authentication, Digest logi<br>IP address filtering, User access log, 802.1x    |             |
| Streaming Method                            | Unicast / Multicast  |             |
| Max. User Access                            | 5 users at unicast mode  |             |
| Memory Slot                                 | Micro, SD/SDHC memory slot   |             |
| ONVIF Conformance                           | Yes  |             |
| Webpage Language                            | English, French, German, Spanish, Italian, C<br>Danish, Portuguese, Turkish, Polish, Czech, Ruma |             |
| Web Viewer                                  | Supported OS: Windows XP / VISTA / 7, MAI<br>Supported Browser: Internet Explorer 7.0 or         |             |
| Central Management Software ENVIRONMENTAL   |  |             |
| Operating Temperature / Humidity ELECTRICAL | -10°C ~ +50°C (+14°F ~ +122°F) / 20%   | ~ 80% RH    |
| Input Voltage / Current                     | 12V DC / PoE (IEEE802.3af)   |             |
| Power Consumption MECHANICAL                | Max. 5W  |             |
| Color / Material                            | Ivory / Plastic  |             |
| Dimensions (WxH)                            | Ø107.6 x 83.7mm (Ø4.24" x 3.3")  |             |
| Weight                                      | 285g (0.63 lb)   |             |

### **SNO-1080R**

### VGA Weatherproof Network IR Camera















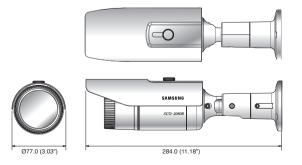


### **Key Features**

- 30fps at VGA (640 x 480) resolution
- 2.3 ~ 7.9mm (3.4x) varifocal lens
- H.264, MJPEG dual codec
- Multiple streaming
- Day & Night function (Software)
- Built-in IR LED 15ea, IR working distance 15m
- SSDR, SSNRIII
- Motion detection, Face detection
- Alarm input 1ea, Analog output (DIP)

### Dimensions

Unit: mm (inch)



|                                  | SNO-1080RN   | SNO-1080RP  |
|----------------------------------|--|---|
| VIDE0                            |  |   |
| Imaging Device                   | 1/4" PS CMOS   |   |
| Total Pixels                     | 680(H) x 512(V)  |   |
| Effective Pixels                 | 640(H) x 480(V)  |   |
| Scanning System                  | Progressive  |   |
| Min. Illumination                | 0.7Lux (F1.2)  |   |
| S / N Ratio                      | 50dB   |   |
| Video Out                        | DIP connector type, for installation   |   |
| LENS                             |  |   |
| Focal Length (Zoom Ratio)        | 2.3 ~ 7.9mm (3.4x) varifocal   |   |
| Max. Aperture Ratio              | F1.2   |   |
| Angular Field of View            | H: 94°(Wide) ~ 26.5°(Tele), V: 70°(Wide) ~                                     | · 20°(Tele)   |
| Min. Object Distance             | 500mm (1.64ft)   |   |
| Lens Type                        | DC auto iris   |   |
| Mount Type                       | Board type (Ø14)   |   |
| OPERATIONAL                      |  |   |
| IR LED                           | 15ea   |   |
| Viewable Length                  | 15m  |   |
| Camera Title                     | Off / On (Displayed up to 15 characters)                                       |   |
| Day & Night                      | Auto (S/W) / Color / B/W   |   |
| Backlight Compensation           | ` ,  |   |
| Contrast Enhancement             | SSDR (Samsung Super Dynamic Range) (Off  | f/On)   |
| Digital Noise Reduction          | SSNRIII (2D+3D noise filter) (Off / On)  | ,   |
| Motion Detection                 | Off / On (4 programmable zones)  |   |
| Privacy Masking                  | Off / On (32ea 4 points polygonal)   |   |
| Sens-up (Frame Integration)      | Off / Auto (2x ~ 60x)  |   |
| Gain Control                     | Off / Low / Medium / High  |   |
| White Balance                    | ATW / AWC / Manual / Indoor / Outdoor  |   |
| Electronic Shutter Speed         |  |   |
| Flip / Mirror                    | Off / On   |   |
| Intelligent Video Analytics      | Face detection   |   |
| Alarm I/O                        | Input 1ea  |   |
| NETWORK                          | пристеа  |   |
| Ethernet                         | RJ-45 (10/100BASE-T)   |   |
| Video Compression Format         | ,  |   |
| Resolution                       | 4:3 Mode - 640 x 480 / 320 x 240 / 160 x                                       | 120   |
| Max. Framerate                   |  | 120   |
| Max. Framerate                   | Max. 30fps at all resolutions  | december 1  |
| Video Quality Adjustment         | H.264 : Compression level, Target bitrate lev<br>MJPEG : Quality level control | el control  |
| Bitrate Control Method           | H.264 : CBR or VBR, MJPEG : VBR  |   |
| Streaming Capability             | Multiple streaming (Up to 10 profiles)   |   |
| IP                               | IPv4, IPv6   |   |
|                                  | TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, N                                    | ITP HTTP HTTPS SSI NHCP PPPAE                                     |
| Protocol                         | FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MI  |   |
|                                  | HTTPS(SSL) login authentication. Digest logi                                   |   |
| Security                         | IP address filtering, User access log, 802.1x                                  |   |
| Streaming Method                 | Unicast / Multicast  | , action addition   |
| Max. User Access                 | 5 users at unicast mode  |   |
| ONVIF Conformance                | Yes  |   |
| Olivii Colliolillalice           | English, French, German, Spanish, Italian, C                                   | hingen Karaan Duesian Japanasa Swadish                            |
| Webpage Language                 | Danish, Portuguese, Turkish, Polish, Czech, Ruma                               |   |
|                                  | Supported OS: Windows XP / VISTA / 7, MAI                                      |   |
| Web Viewer                       | Supported Browser: Internet Explorer 6.0 or                                    |   |
| Central Management Software      |  | riigiloi, riiotox, doogio officilio, rippie odid                  |
| ENVIRONMENTAL                    | THE T THOUSE   |   |
| Operating Temperature / Humidity | -10°C ~ +50°C (+14°F ~ +122°F) / 20%   | ~ 80% BH  |
| ELECTRICAL                       | 10 0~ +00 0 (+1+1 ~ +122 1)/ 20%   | - 00 /0 1111  |
|                                  | 13V DC / PoE //EEE803 356  |   |
| Input Voltage / Current          | 12V DC / PoE (IEEE802.3af)   |   |
| Power Consumption                | Max. 7W  |   |
| MECHANICAL                       | Dorle gray / ALDC  |   |
| Color / Material                 | Dark gray / ALDC   | 0.000\ 0.04.0mm /11.10\\\/D===1=1=1=1=1=1=1=1=1=1=1=1=1=1=1=1=1=1 |
| Dimensions (WxHxD) Weight        | Ø77.0 x 216.0mm (Ø3.03" x 8.5") (Bracket angl<br>1Kg (2.2 lb)                  | e 50 ), 284.011111 (11.18") (Bracket angle 180°)                  |
|                                  |  |   |

### **SNV-1080**

### VGA Vandal-Resistant Network Varifocal Dome Camera

















### **Key Features**

- 30fps at VGA (640 x 480) resolution
- 2.2 ~ 7.7mm (3.5x) varifocal lens
- H.264, MJPEG dual codec
- Multiple streaming
- Day & Night function (Software)
- SSDR, SSNRIII
- PoE, IP66, Micro SD slot, Bi-directional audio
- Motion detection, Face detection
- Alarm input 1ea, Analog output (DIP)

### Dimensions

Unit: mm (inch)

Weight

770g (1.7lb)





|   | SNV-1080N   | SNV-1080P   |
|---|---|-------------|
| VIDE0                                     |   |             |
| Imaging Device                            | 1/4" PS CMOS  |             |
| Total Pixels                              | 680(H) x 512(V)   |             |
| Effective Pixels                          | 640(H) x 480(V)   |             |
| Scanning System                           | Progressive   |             |
| Min. Illumination                         | 0.7Lux (F1.2)   |             |
| S / N Ratio                               | 50dB  |             |
| Video Out                                 | DIP connector type, for installation  |             |
| LENS                                      |   |             |
| Focal Length (Zoom Ratio)                 | 2.2 ~ 7.7mm (3.5x) varifocal  |             |
| Max. Aperture Ratio                       | F1.2  |             |
| Angular Field of View                     | H: 94°(Wide) ~ 26.5°(Tele), V: 70°(Wide) ~  | ~ 20°(Tele) |
| Min. Object Distance                      | 500mm (1.64ft)  |             |
| Lens Type                                 | DC auto iris  |             |
| Mount Type                                | Board type (Ø14)  |             |
| PAN / TILT / ROTATE                       |   |             |
| Pan Range                                 | 0° ~ 355°   |             |
| Tilt Range                                | 17° ~ 90°   |             |
| Rotate Range                              | 0° ~ 355°   |             |
| OPERATIONAL                               |   |             |
| Camera Title                              | Off / On (Displayed up to 15 characters)  |             |
| Day & Night                               | Auto (S/W) / Color / B/W / External B/W   |             |
| Backlight Compensation                    | Off / BLC   |             |
| Contrast Enhancement                      | SSDR (Samsung Super Dynamic Range) (Of  | f / On)     |
| Digital Noise Reduction                   | SSNRIII (2D+3D noise filter) (0ff / 0n)   |             |
| Motion Detection                          | Off / On (4 programmable zones)   |             |
| Privacy Masking                           | Off / On (32ea 4 points polygonal)  |             |
| Sens-up (Frame Integration)               | Off / Auto (2x ~ 60x)   |             |
| Gain Control                              | Off / Low / Medium / High   |             |
| White Balance                             | ATW / AWC / Manual / Indoor / Outdoor   |             |
| Electronic Shutter Speed                  | Auto / A.FLK / Manual (60x ~ 1/12000sec)  |             |
| Flip / Mirror                             | Off / On  |             |
| Intelligent Video Analytics               | Face detection  |             |
| Alarm I/O                                 | Input 1ea   |             |
| NETWORK                                   |   |             |
| Ethernet                                  | RJ-45 (10/100BASE-T)  |             |
| Video Compression Format                  | H.264, MJPEG  |             |
| Resolution                                | 4:3 Mode - 640 x 480 / 320 x 240 / 160 x  | 120         |
| Max. Framerate                            | Max. 30fps at all resolutions   |             |
| Video Quality Adjustment                  | H.264 : Compression level, Target bitrate lev<br>MJPEG : Quality level control                  | vel control |
| Bitrate Control Method                    | H.264: CBR or VBR, MJPEG: VBR   |             |
| Streaming Capability                      | Multiple streaming (Up to 10 profiles)  |             |
| Audio I/O                                 | Mic/Line in , Line out  |             |
| Audio Compression Format                  |   |             |
| Audio Communication                       | 2-Way   |             |
| IP  | IPv4, IPv6  |             |
| Protocol                                  | TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, I<br>FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MII         |             |
| Security                                  | HTTPS(SSL) login authentication, Digest log IP address filtering, User access log, 802.1x       |             |
| Streaming Method                          | Unicast / Multicast   |             |
| Max. User Access                          | 5 users at unicast mode   |             |
| Memory Slot                               | Micro, SD/SDHC memory slot  |             |
| ONVIF Conformance                         | Yes   |             |
| Webpage Language                          | English, French, German, Spanish, Italian, C<br>Danish, Portuguese, Turkish, Polish, Czech, Rum |             |
| Web Viewer                                | Supported OS: Windows XP / VISTA / 7, MA<br>Supported Browser: Internet Explorer 7.0 or         |             |
| Central Management Software ENVIRONMENTAL | NET-i viewer  |             |
| Operating Temperature / Humidity          | -10°C ~ +50°C (+14°F ~ +122°F) / 20%  | ~ 80% RH    |
| Ingress Protection ELECTRICAL             | IP66 Grade (Waterproof)   |             |
| Input Voltage / Current                   | 12V DC / PoE (IEEE802.3af)  |             |
| Power Consumption                         | Max. 5W   |             |
| MECHANICAL                                | IVIAA. JVV  |             |
| Color / Material                          | lvory / Aluminum  |             |
| Dimensions (WxH)                          | Ø137.0 x 106mm (Ø5.39" x 4.17")   |             |
|   |   |             |



# SRN-1670D/470D

### 16CH/4CH Network Video Recorder









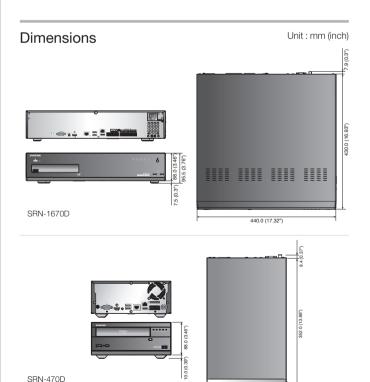






### **Key Features**

- Full HD resolution support
- H.264, MJPEG dual codec
- 4CIF high resolution images at 480fps(N), 400fps(P) in real-time (SRN-1670D) 4CIF high resolution images at 120fps(N), 100fps(P) in real-time (SRN-470D)
- DVD writer support



|   |                                  | SRN-1670D  | SRN-470D   |  |  |
|---|----------------------------------|--|--|--|--|
| DISPLAY   |                                  |  |  |  |  |
|   | Inputs                           | Up to 16CH Up to 4CH   |  |  |  |
| N/W   | Resolution                       | VGA (640 x 480) / SVGA (800 x 600) / 4CIF (704 x 480) /                                  |  |  |  |
| Camera  | nesolution                       | 1.3M (1280 x 1024) / 2M (1920 x 1080) / 3M (2048 x 1536)                                 |  |  |  |
|   | Protocols                        | Samsung  |  |  |  |
| Live  | Multi Screen Display             | 1/4/6/8/9/13/16, Sequence  | 1 / 4, Sequence                                  |  |  |
| PERFORMA  |                                  |  |  |  |  |
| Operating System  | Embedded                         | Linux  |  |  |  |
|   | Compression                      | H.264, MPEG-4, MJPEG   |  |  |  |
|   | Recording Bit Rate<br>Resolution | 64Mbps 4CIE (704 × 480) / 1 3M (1280 × 1024) / 2M (1920 × 1080) / 3M (2048 × 1536)       |  |  |  |
| Recording   | Mode                             | 4CIF (704 x 480) / 1.3M (1280 x 1024) / 2M (1920 x 1080) / 3M (2048 x 1536)              |  |  |  |
| necolulity  | Overwrite Modes                  | Manual, Schedule (Continuous / Event), Event (Pre / Post) Selectable (Stop / Continuous) |  |  |  |
|   | Pre-alarm                        | Selectable (Stop / Continuous)  Up to 15sec (5,10,15sec) * 4CIF standard resolution      |  |  |  |
|   | Post-alarm                       | Up to 6hour (5, 10, 20, 30sec, 1, 3, 5, 10, 20min, 1, 2, 3, 4, 5, 6hour)                 |  |  |  |
|   | Playback Speed                   | 4CH  | 5, 2011111, 1, 2, 0, 1, 0, 011041)               |  |  |
| Search &  | Resolution                       | 4CIF (704 x 480) / 1.3M (1280 x 1024)  | / 2M (1920 x 1080) / 3M (2048 x 1536)            |  |  |
| Playback  | Search Mode                      | Date/time, Event, Back up (*All search in  | , , ,  |  |  |
|   | Playback Function                | Fast forward / backward, Slow forward /  |  |  |  |
|   | Ethernet                         | Gigabit Ethernet x 2   |  |  |  |
|   | Transmission Speed               | Up to 48Mbps, Unlimited (48M) / 2 / 1.5 / 1Mbps / 8                                      | 300 / 600 / 500 / 400 / 300 / 200 / 100 / 50kbps |  |  |
| Network   | Bandwidth Control                | Automatic  |  |  |  |
| MELWOIK   | Max. Remote Users                | Search 3 / Live unicast 10 / Live multica  | ast 20   |  |  |
|   | Protocol Support                 | TCP/IP, DHCP, PPPoE, SMTP, NTP, HTTP,  | DDNS, RTP, RTSP                                  |  |  |
|   | Monitoring                       | NET-i viewer, Webviewer  |  |  |  |
|   | Internal HDD                     | Up to 5 SATA HDDs  | Up to 1 SATA HDD                                 |  |  |
|   | External HDD                     | e-SATA interface   |  |  |  |
| Storage   | DVD Writer (Back up)             | Yes  |  |  |  |
|   | USB (Back up)                    | 3 USB ports  | 2 USB ports                                      |  |  |
|   | File Format (Back up)            | BU (NVR player), EXE (Include player)  |  |  |  |
| Security  | Password Protection              | 1Admin, 10 Group, 20 User per 1 group, U   | ser can be assigned authority for function       |  |  |
| •   | Data Authentication              | Watermark  |  |  |  |
| INTERFACE   |                                  | A  |  |  |  |
| Monitors  | VGA                              | Analogue RGB 1280 x 1024(60Hz) reso  | lution   |  |  |
|   | HDMI                             | 720p/1080p(60Hz) resolution  | NI/A (Alabarah andia amanah mata 4011)           |  |  |
| Audio   | Inputs                           | N/A (Network audio support, up to 16CH) RCA x 1  | N/A (Network audio support, up to 4CH)           |  |  |
| Audio   | Output                           |  |  |  |  |
|   | Compression<br>Inputs            | G.711, G.723.1, G.726<br>Terminal 16 inputs, NO/NC                                       | Terminal 4 inputs, NO/NC                         |  |  |
| Alarm   | Outputs                          | Terminal 4 relay outputs, NO/NC  | Terminal 2 relay outputs, NO/NC                  |  |  |
| Λιαιτιι   | Remote Notification              | , , ,  | Terminal 2 Telay outputs, No/No                  |  |  |
|   | Ethernet                         | 2 RJ-45 10/100/1000 Base-T   |  |  |  |
|   | USB                              | USB 2.0, 3 ports   | USB 2.0, 2 ports                                 |  |  |
| Connections   | eSATA                            | 2 ports  | ,  |  |  |
|   | Application Support              | Mouse, Remote controller   |  |  |  |
| Dome  | Supported                        |  |  |  |  |
| Protocols   | PTZ Cameras                      | Samsung network products (Network P  | TZ)  |  |  |
| GENERAL   |                                  |  |  |  |  |
| Flashdaal   | Input Voltage / Current          | 100 ~ 240V AC ±10%, 50/60Hz, 4 ~ 1.5A  | 12V DC adaptor, 4A,100 ~ 250V AC, 50/60Hz, 1.2A  |  |  |
| Electrical  | Power Consumption                | Max. 56W (With 1x HDD)   | Max. 36W (With 1x HDD)                           |  |  |
| Environmental   | Operating Temperature            | +0°C ~ +40°C (+32°F ~ +104°F)  |  |  |  |
| Elivilolililelilai  | Operating Humidity               | 20% ~ 85% RH   |  |  |  |
|   | Dimensions (WxHxD)               | 440.0 x 88.0 x 430.0mm (17.32" x 3.46" x 16.93")   | 215.0 x 88.0 x 352.0mm (8.46" x 3.46" x 13.86")  |  |  |
| Mechanical  | Weight (2x Hard Disks)           | Approx. 7.5Kg (16.53 lb)   | Approx. 4Kg (8.82 lb)                            |  |  |
|   | Rack Mount Kit                   | 2ea  | N/A  |  |  |
| Korean, Japanese, Chinese, English, French, Ger<br>Language Polish, Czech, Turkish, Netherlands, Portuguese, S<br>Serbia, Croatia, Hungarian, Greek (22 Language) |                                  | tuguese,Swedish,Danish,Thai,Rumania  |  |  |  |



### License-Free Monitoring/Recording Software

Samsung provides the NET-i viewer, Free CMS (Central Management Software) and the NET-i ware, 4CH recording software to help efficient network security system operation. The software can be accessed easily; downloaded from the corporate HQ website (http://www.samsungsecurity.com/main.asp).



### **NET-i** viewer

The easy way to view, administer and control your Samsung solution

The NET-i viewer allows remote viewing, control and administration of single or multiple site security systems via a PC. Compatible with all Samsung network devices and Digital Video Recorders (DVRs), NET-i viewer provides a centrally managed software platform for both network and analogue products giving the user the opportunity to bring various technologies together into an easy to administer hybrid solution.

#### View

- The NET-i viewer supports simultaneous live monitoring with the ability to use up to four monitors which can be used, for example, to view live video, search for recorded video via attached NVRs or DVRs (event, calendar and video clip searching) and display drill-down graphical maps of the entire site.
- If an event or video loss occurs a yellow box appears around the scene in question making it easy for operators to detect potential issues and a two way audio function allows effective communication.

#### Control

Network devices and even analogue devices attached via a DVR, can be controlled using an intuitive Graphical User Interface (GUI).
 For the PTZ dome cameras, the NET-i viewer provides pan and tilt control with highly accurate "drag-box" zoom, which can also be controlled via a mouse wheel

#### Administration

• The NET-i viewer is extremely easy to set-up and start using straight away with simple network device discovery and device tree structure. Individual cameras can be set-up by accessing their On Screen Display (OSD) menus and camera location icons can be dragged and dropped onto the graphical map to give a full coverage overview of a site.

### NET-i ware

The easy way to control and record solution for the network devices

The NET-i ware is available for 4/8/16/32/64 channel which are the number of network devices that can be connected to the software. The 4CH version of the NET-i ware (SNS-SF004) is free-licensed product and able to download from the corporate website. In addition to the view, control, and administration functions that the NET-i viewer provides, the NET-i ware provides recording and play back functions via a PC across the network.



- The NET-i ware provides various recording mode. Not only continuous recording, event based recording including pre/post alarm recording is supported. A type of event that users want to monitor can be selected from a range of pool; motion detection, intelligent video detection, video loss, and alarm signal output.
- An administrator can also decide if they wish to record both video and audio and if certain cameras should be hidden from an operators view.

#### Search & Playback

• Recording history can be checked with easy-to-use GUI. Users can search the recorded data by calendar and event. By selecting searched data, users can playback for the time or camera of interest.

#### Back up

- The NET-i ware SNS-SF software will automatically backup/archive at a pre-determined time either every day or every week on a per camera basis to a file location of choice.
- The recorded data has a global auto deletion mode as well as an option to automatically overwrite the oldest video when the HDDs are full. Also, users can check the status of the HDDs.

#### **Alarm Notification**

• The automatic sending of an email informing the recipient of the camera name, event type, event time and a snapshot JPEG image of what has triggered an alarm or a camera's motion detection function.





### **NET-i** viewer

### Central Management Software



### **Key Features**

- Monitoring software for Samsung video surveillance products
- Up to 64 channels real-time live monitoring simultaneously in single PC
- Support for various video format: H.264, MPEG-4, MJPEG
- Support for various audio format: G.726, G.711, G.723
- Support for various video resolution
- : megapixel (1M, 2M, 3M), Full HD, 4CIF, Half D1, VGA, CIF
- · Powerful E-map based monitoring
- Bi-directional audio communication
- Remote PTZ control and power area zoom (click and go control)
- Support for various search and playback options
- : date and time based search
- $: event \ (alarm, \ motion, \ intelligent \ video) \ based \ search$
- : normal playback, backward playback, fast/slow playback, step playback
- Notification in case of event occurring
- : highlighting in the border of video window
- : display event log message in real time
- Back up capability
- : manual back up
- : AVI, REC1, SEC format
- Manual recording (up to 1CH) during 24 hours
- Multi-level user access and authority management
- Support for multi-language user interface
- Automatic search of network cameras for quick and easy configuration
- Easy device management (configuration, firmware upgrade)
- Automatic self upgrade (connection to Samsung upgrade server)

|                      |                         | NET-i viewer (Version : 1.32)   |
|----------------------|-------------------------|---|
| DEVICE               |                         |   |
| Supporte             | d Device                | Network Camera, Encoder, DVR, NVR   |
| Max. Reg             | ister Device            | 250   |
| PERFORM              | MANCE                   |   |
| Video                | Supported Format        | H.264, MPEG-4, MJPEG  |
| viueu                | Supported Resolution    | QXGA, UXGA, SXGA, HD, SVGA, 4CIF, Half D1, VGA, CIF, QVGA   |
| Audio                | Supported Format        | G.711, G.726, G.723   |
| Audio                | Functions               | Bi-directional audio, listen, transmit client microphone input to remote speaker  |
|                      | Multi-monitor           | Up to 4 monitors (Follow the recommended system requirement)  |
|                      | Screen-split Mode       | 1, 4, 6, 7, 8, 9, 10, 11, 12, 16, 25, 36, 49, 64 (Full-screen)  |
| Live<br>Monitoring   | PTZ Control             | PTZ control (Pan, Tilt, Zoom, Focus, Preset) using mouse Digital zoom in/out on the image, click and go control   |
|                      | Functions               | Automatic device search of network cameras for quick and easy configuration. Device management (Configuration & firmware update), Snapshot / Prints image   |
|                      | Local (Remote) Playback | Supported   |
| Search &             |                         | Search for recordings based on DVR, NVR, Date/time based search,<br>Event (Alarm, Motion, Intelligent video) based search   |
| Playback             | Playback Mode           | Normal, Forward/Backward, Fast/Slow, Step   |
|                      | Functions               | Snapshot / Prints image   |
|                      | Local (Remote) Back up  | Supported   |
| Back up              | Back up                 | Local storage, back up format (AVI, REC1, SEC)  |
| Display<br>Event     |                         | Highlighting in the border of video window, Display event log message in real time, Launches instant player   |
| Monitoring           | Logs                    | Event (Alarm, Motion, Intelligent video, video loss),<br>Stores user actions by time and cameras and full system operation  |
|                      | Display                 | Camera / Alarm / Sensor on the map  |
| MAP                  | Number of Map           | 50maps  |
| Viewer               | Supports Image          | JPEG / BMP / GIF / PNG  |
|                      | Monitoring              | Launches instant player/viewer up to 16CH   |
| User                 |                         | Admin, Operator, User   |
| Update               |                         | Automatic self upgrade (Connection to Samsung upgrade server)   |
| GENERAL              |                         |   |
| Language             | 3                       | Total 22 languages support. English, French, German, Spanish, Italian, Russian, Chinese, Japanese, Korear Turkish, Polish, Czech, Serbian, Romanian, Portuguese, Dutch, Croatian, Hungarian, Greek, Taiwanese, Swedish, Danish  |
| System R<br>(Recomm  | equirement<br>lended)   | CPU Intel i7 above, RAM 3GB above, Video memory 1GB above, HDD 200GB above, DirectX 8.1 above. Display resolution : 1,280 x 1,024 abov OpenGL compatible, OS: Window XP Professional, Windows 2000 Professional, Windows Vista Home Basic/Premium/Ultimate, Windows 7 |
| System R<br>(Minimun | equirement<br>n)        | CPU Intel Core2Quad 2.5GHz above, RAM 3GB above, Video memory 512MB, HDD 200GB above  |

 $<sup>^{\</sup>star}$  The entire items are not supported in every device. Some items are not supported in certain devices.



### **NET-i** ware

### **Recording Software**



### **Key Features**

- · Recording software for Samsung network cameras
- : 4 / 8 / 16 / 32 / 64 cameras recording package are available now
- : recording channel extension is available by channel addition
- : live video monitoring and search/playback of recorded video by CMS software
- High performance recording : up to 250Mbps
- Triplex operation performance
- : recording, live video transmission, recorded video transmission
- Support for various recording options
- : continuous recording
- : event based recording (including pre/post alarm recording) (motion detection, intelligent video detection, video loss, alarm signal input)
- : scheduled recording (including holiday setup)
- Notification in case of event occurring
- : user defined alert sound output
- : e-mail to pre-assigned receiver
- : notification to monitoring software (CMS software)
- Event log: system, user access, back up, recording, motion, alarm, video loss, I/V
- · Multiple disk allocation and distribution for stable recording
- Multi-level user access and authority management
- Support for multi-language user interface
- Automatic search of network cameras for quick and easy configuration
- Automatic self upgrade (connection to Samsung upgrade server)

|                                  |  | SNS-SF064  | SNS-SF032   | SNS-SF016         | SNS-SF008           | SNS-SF004        |
|----------------------------------|--|--|---|-------------------|---------------------|------------------|
| DEVICE                           |  |  |   |                   |                     |                  |
| Supporte                         | d Device   | Samsung's Net  | work Camera, Er   | ncoder            |                     |                  |
| Max. Reg                         | ister Device   | 64   | 32  | 16                | 8                   | 4                |
| PERFORM                          | MANCE  |  |   |                   |                     |                  |
| Vidoo                            | Supported Format   | H.264, MPEG-4  | I, MJPEG  |                   |                     |                  |
| Video                            | Supported Resolution   | QXGA, UXGA, S  | XGA, HD, SVGA,  | 4CIF, Half D1, VG | A, CIF, QVGA        |                  |
| Audio                            | Supported Format   | G.711, G.726,  | G.723   |                   |                     |                  |
| Audio                            | Functions  | Bi-directional a   | udio, listen, trans   | smit client micro | phone input to re   | emote speakers   |
|                                  | Performance  | 250Mbps  |   |                   |                     |                  |
|                                  | Record Mode  | Continuous, Eve  | ent (Pre/Post alar  | m recording), So  | cheduled recordi    | ng               |
| Record                           | Quality  | 10 levels  |   |                   |                     |                  |
|                                  | Pre/Post Record Time   | Pre: 1 ~ 16CH  | 60sec, 17~ 320  | H 30sec, 33 ~ 6   | 64CH 15sec, Pos     | st : 1200sec     |
|                                  | LOG  | System, User acc   | cess, Back up, Rec  | ording, Motion, A | arm, Video loss, Ir | ntelligent video |
| Search &                         | Playback   | 4 user x 4CH   |   |                   |                     |                  |
| Playback                         | Mode   | Time, Event, Tin   | neline  |                   |                     |                  |
| Dool:                            | Manual   | DVD/CD, USB H  | IDD, USB flash m  | emory, Back up    | format : REC1, S    | EC               |
| Back up                          | Schedule   | NAS (Network A   | ttached Storage   | ), USB HDD, Bac   | k up format : RE    | 01               |
| Event                            | E-mail   | E-mail transfer  | at event occurre  | nce               |                     |                  |
| Monitoring                       | Preset   | Preset move at alarm occurrence  |   |                   |                     |                  |
|                                  | Maximum Controller of HDD  | 24HDDs   |   |                   |                     |                  |
| Storage                          | Supported Device Format  | e-SATA   |   |                   |                     |                  |
|                                  | Functions  | Storage space a  | assigning by eac  | h disk, Warning   | against lower dis   | k space          |
|                                  | NIC Support  | NIC is selectabl   | e by device conn  | ection and clien  | t connection type   | 9                |
|                                  | SW Status  | Device connection, Manual / Schedule recording status  |   |                   |                     |                  |
|                                  | Data Security  | Login packet er  | ncryption   |                   |                     |                  |
| System                           | Configuration Value  | Initialization / Ex  | kport / Import  |                   |                     |                  |
|                                  | Functions  | Auto power-on  | record  |                   |                     |                  |
|                                  | Time Synchronization   | NTP Server, Clie   | NTP Server, Client  |                   |                     |                  |
|                                  | User Level   | User-defined fu  | nction  |                   |                     |                  |
| User                             | Local(Remote) User   | Group: 32, Use   | r:32  |                   |                     |                  |
|                                  | IP Filtering for Remote User   | Supported  |   |                   |                     |                  |
| W.L. L.                          | Live   | Monitoring up to   | o 9channels   |                   |                     |                  |
| Webviewer                        | Search   | Time, Timeline   | (4channels simu   | Itaneously)       |                     |                  |
| Update                           |  | Automatic self u   | upgrade (Connec   | tion to Samsung   | upgrade server      | )                |
| GENERAL                          |  |  |   |                   |                     |                  |
| Language                         | English, French, German, Spanish, Italian, Turkish, Russian, Chinese, Japa<br>Language Korean, Polish, Czech, Serbian, Romanian, Portuguese, Dutch, Croatian,<br>Hungarian, Greek, Taiwanese, Danish, Norwegian, Finnish |  |   |                   |                     |                  |
| System Requirement (Recommended) |  | CPU : Intel Core i7, RAM : 4GB Video memory : 256MB, 2HDDs(SATA II) above Microsoft .NET Framework 4.0 OS : Windows 2003 Server SP2, Windows 2008 Server |   |                   |                     |                  |
| System Requirement (Minimum)     |  | Video memory :<br>Microsoft .NET<br>OS : Windows X   | i3, RAM : 2GB a<br>256MB, 2HDDs<br>Framework 4.0<br>P2, Windows 20<br>Server, Windows | (SATA II) above   | Windows Vista,      |                  |
| * Recording                      | channel extension is availabl  |  |   | s 7               |                     |                  |

 $<sup>^{\</sup>star}$  Recording channel extension is available by channel addition function.

<sup>\*</sup> Two or more HDDs (SATA2 7200rpm) should be used for 250Mbps recording performance.



# SMT-1912/1712

19"/17" TFT-LCD Monitor





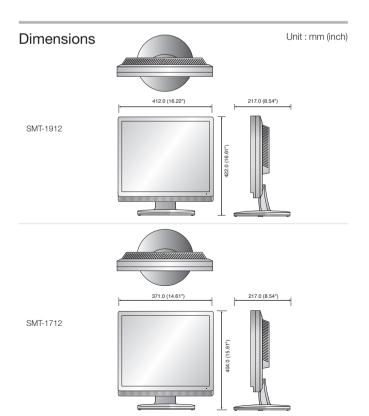






### **Key Features**

- Support up to 1280 x 1024 resolution
- High contrast ratio 1000 : 1
- Fast response time 5ms
- RGB interface



|  |                          | SMT-1912  | SMT-1712                  |  |
|--|--------------------------|---|---------------------------|--|
| DISPLAY  |                          |   |                           |  |
| Screen Size  |                          | 19" 17"   |                           |  |
| Max. Resolu  | ution                    | 1,280 x 1,024   |                           |  |
| Brightness   |                          | 250cd/m <sup>2</sup>  |                           |  |
| Contrast Ra  | ntio                     | 1,000:1   |                           |  |
| Aspect Rati  | 0                        | 4:3   |                           |  |
| Viewing An   | gle (H/V)                | 170°/160°   |                           |  |
| Display Col  | or                       | 16.7million   |                           |  |
| Response T   | ime                      | 5ms   |                           |  |
| Video Syste  | em                       | NTSC / PAL  |                           |  |
| Panel Life   |                          | 40,000hours   | 50,000hours               |  |
| INTERFACE  |                          |   |                           |  |
|  | Connector                | 1 Analogue RGB 15-pin D-sub   |                           |  |
|  | Input Signal             | $0.7 \text{ Vp-p } (0.5 \sim 1 \text{ Vrms})$   |                           |  |
| RGB / DVI  | Available Format         | 640 x 350@70Hz 720 x 400@70Hz 640 x 480@60Hz/72Hz/75Hz (VGA) 800 x 600@56Hz/60Hz/72Hz/75Hz (SVGA) 1,024 x 768@60Hz/70Hz/75Hz (XGA) 1,152 x 864@75Hz 1,152 x 870@75Hz 1,280 x 720@60Hz 1,280 x 960@60Hz 1,280 x 1,024@60Hz/75Hz (SXGA) |                           |  |
| Application  | Support                  | Remote controller   |                           |  |
| ON SCREEN  | I DISPLAY                |   |                           |  |
| Functions  |                          | VESA <sup>™</sup> DPM compatible  |                           |  |
| Language English, Spanish, French, German, Italian, Portuguese, Dutch, Russian, Swedish, Chinese, Japanese, Korean |                          | , ,   |                           |  |
| GENERAL  |                          |   |                           |  |
| Electrical   | Input Voltage            | 100 ~ 240V AC (50/60Hz)   |                           |  |
| Electrical   | Power Consumption        | Type 19.5W  | Type 17.5W                |  |
| Cardina and and all  | Operating Temperature    | 0 ~ +40°C (+32°F ~ +104°F)  |                           |  |
| Environmental  | Operating Humidity       | 10% ~ 80% (Non-condensing)  |                           |  |
| Mechanical   | Dimensions with Stand    | 412.0 x 422.0 x 217.0mm   | 371.0 x 404.0 x 217.0mm   |  |
|  | (WxHxD)                  | (16.22" x 16.61" x 8.54")   | (14.61" x 15.91" x 8.54") |  |
|  | Dimensions without Stand | 412.0 x 361.0 x 70.0mm  | 371.0 x 331.0 x 70.0mm    |  |
|  | (WxHxD)                  | (16.22" x 14.21" x 2.76")   | (14.61" x 13.03" x 2.76") |  |
|  | Weight                   | 5.5Kg (12.13 lb)  | 4.9Kg (10.8 lb)           |  |
|  | LCD Protection Glass     | Yes   |                           |  |
|  | Cabinet Color            | Black   |                           |  |
|  | VESA Mounts Interface    |   |                           |  |



# SMT-1923/1723

19"/17" TFT-LCD Monitor











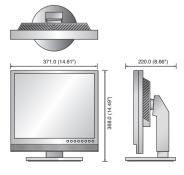


### Key Features

- Support up to 1280 x 1024 resolution
- High contrast ratio 1000:1
- Fast response time 5ms
- 120Hz motion technology
- RGB / BNC / S-Video interface

# Dimensions Unit : mm (inch) \*\*MT-1923\*\* Unit : mm (inch)

SMT-1723



|                 |  | SMT-1923  | SMT-1723                  |  |
|-----------------|--|---|---------------------------|--|
| DISPLAY         |  |   |                           |  |
| Screen Size     | 9  | 19"   | 17"                       |  |
| Max. Resolu     | ution  | 1,280 x 1,024   |                           |  |
| Brightness      |  | 250cd/m <sup>2</sup>  |                           |  |
| Contrast Ra     | atio   | 1,000:1   |                           |  |
| Aspect Rati     | io   | 4:3   |                           |  |
| Viewing An      | gle (H/V)  | 170°/160°   |                           |  |
| Display Col     | or   | 16.7million   |                           |  |
| Response T      | Гime   | 5ms   |                           |  |
| Video Syste     | em   | NTSC / PAL  |                           |  |
| Panel Life      |  | 40,000hours   | 50,000hours               |  |
| Filter Type     |  | 3D combfilter   |                           |  |
| INTERFACE       |  |   |                           |  |
| Video           | Connector  | BNC types (2 in / 2 out)  |                           |  |
| S-Video         | Connector  | 1CH input (Y/C), Loop through out   |                           |  |
|                 | Connector  | 1 Analogue RGB 15-pin D-sub   |                           |  |
|                 | Input Signal   | 0.7 Vp-p ±5%  |                           |  |
| RGB / DVI       | Available Format                                       | 720 x 400@70Hz 640 x 480@60Hz/72Hz/75Hz (VGA) 800 x 600@56Hz/60Hz/72Hz/75Hz (SVGA) 1,024 x 768@60Hz/70Hz/75Hz (XGA) 1,152 x 864@75Hz 1,280 x 720@60Hz 1,280 x 960@60Hz 1,280 x 1,024@60Hz/75Hz (SXGA) |                           |  |
|                 | Connector  | 2 RCA type (2 Stereo inputs)  |                           |  |
| Audio           | Output Signal  | Speakers: 2 x 1W  |                           |  |
| Application     | Support  | Remote controller   |                           |  |
| ON SCREEN       | N DISPLAY  |   |                           |  |
| Functions       |  | Motion technology (120Hz), VESA™ DP   | M compatible, PIP/PBP     |  |
| Language        | Fnolish, Spanish, French, German, Italian, Portuguese. |   | , ,                       |  |
| GENERAL         |  |   |                           |  |
| Electrical      | Input Voltage  | 12V DC (External power supply)  |                           |  |
| Littillal       | Power Consumption                                      | Type 26W Type 23W   |                           |  |
| Environmental   | Operating Temperature                                  | 0 ~ +40°C (+32°F ~ +104°F)  |                           |  |
| LIIVIIUIIIITIII | Operating Humidity                                     | ,   |                           |  |
|                 | Dimensions with Stand                                  | 412.0 x 398.0 x 220.0mm   | 371.0 x 368.0 x 220.0mm   |  |
| Mashariasl      | (WxHxD)  | (16.22" x 15.67" x 8.66")   | (14.61" x 14.49" x 8.66") |  |
|                 | Dimensions without Stand                               | 412.0 x 361.0 x 69.0mm  | 371.0 x 331.0 x 67.0mm    |  |
|                 | (WxHxD)  | (16.22" x 14.21" x 2.72")   | (14.61" x 13.03" x 2.64") |  |
| Mechanical      | Weight   | 6.85Kg (15.1 lb)  | 5.95Kg (13.12 lb)         |  |
|                 | LCD Protection Glass                                   | Yes   |                           |  |
|                 | Cabinet Color  | Black   |                           |  |
|                 | VESA Mounts Interface                                  | 100 x 100mm   |                           |  |